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plate. In the duplex, the pendulum was disjointed and consequently only a partial record was traced by its pen.

The Ewing seismograph and the Wiechert vertical were put in commission as soon as possible after the violent shock. The following list of after-shocks were recorded by the vertical, none of them being of sufficient intensity to affect the Ewing:—

1911 July 1.	6 ^h	5 ^m	16 ^s .7	P.M.	P. S. T.	Intensity	II
	7	0	21.7	"	"	"	III
	7	41	55.5	"	"	"	I
	10	19	32.9	"	"	"	I
July 2.	12	0	25.5	A.M.	"	"	II
	5	31	29.4	"	"	"	III
	12	36	5.5	P.M.	"	"	III
	3	19	42.6	"	"	"	I
	5	33	59.7	"	"	"	II
July 3.	6	48	34.3	A.M.	"	"	II

On Monday, July 3d, the Wiechert horizontal was partially readjusted, and the following shocks were recorded by it, as well as by the vertical:—

July 4.	12 ^h	33 ^m	39 ^s .2	P.M.	P. S. T.	Intensity	I
	5	43	48.9	"	"	"	I
July 5.	4	20	31.5 ¹	A.M.	"	"	I
July 7.	11	13	19.4 ²	"	"	"	I
	9	50	48.4	P.M.	"	"	I
July 8.	1	38	55.8	A.M.	"	"	I
July 11.	7	39	27.1 ¹	"	"	"	I
July 14.	6	21	15.9	"	"	"	II
	6	54	33.7 ¹	"	"	"	I
	7	1	42.3 ¹	"	"	"	I

C. C. KIESS.

LICK OBSERVATORY, July 18, 1911.

APPOINTMENT OF THE FIRST MARTIN KELLOGG FELLOW.

In Number 135 of these *Publications*, Director CAMPBELL made announcement of the endowment of Martin Kellogg Fellowships in the Lick Observatory by a fund provided by the late Mrs. LOUISE W. B. KELLOGG, widow of ex-President MARTIN KELLOGG of the University of California.

It is a pleasure to announce at this time that Dr. KEIVIN BURNS has been appointed first Martin Kellogg Fellow under

¹ Recorded by horizontal only.

² Recorded by vertical only.

the provisions of this endowment. Mr. BURNS received his bachelor's degree from the University of Minnesota in 1903. From June, 1904, to September, 1907, he was assistant in the Lick Observatory, with principal duties in connection with Dr. CAMPBELL's program for determining stellar radial velocities. Returning to the University of Minnesota in September, 1907, he received from that institution the degree of doctor of philosophy in 1910, the subject of his thesis being "A Photographic Study of the Region of the Great Nebula in *Orion*." For the past year he has again held the position of assistant in the Lick Observatory.

Dr. BURNS's appointment as Martin Kellogg Fellow dates from August 15, 1911, and it is his intention to sail for Europe on August 12th. He will devote the year mainly to studies in spectroscopy, and will visit many of the principal observatories of Europe.

It is a special pleasure to add that he will be accompanied by Mrs. BURNS, who, as Miss HAZEL V. BUNNEY, has spent the past year as special assistant in the Lick Observatory.

R. G. AITKEN.

July, 1911.

NOTE ON THE EARTHQUAKE OF JULY 1, 1911.

The earthquake of July 1, 1911, was in some respects the most severe one experienced since the observatory was founded. The amplitude of vibration was less than in the shock of April 18, 1906, and the duration was much less, but the motion was more violent.

Fortunately, the telescopes and other instruments of the observatory suffered no injury, with the exception of the Riefler clock. The steel springs in the pendulum support of this clock were broken, allowing the pendulum to fall and break the air-tight glass case. The 36-inch telescope was moved about three quarters of an inch to the south, the great base plate slipping on the masonry pier. The telescope was put into position again promptly and without difficulty, and has suffered no harm whatever. It stood entirely idle for one night only. The other telescopes were not affected.

The damage to the buildings on Mount Hamilton consists mainly of broken plaster and cracked chimneys, with the excep-